



FIG. 1

SCANNED, #2

Seam Primer (PA1) →

F92

Subgroup A (RAV-1) 1 C A C A G C T G T T A G G T T C C C A G T T T T T C C C T C A C A T T A T A A T A T T A C T C A A T T T C T G T

Subgroup B (RAV-2) 1 C T A C A G C T G T T A G G T T C C C A G T C T C C C A A C A T A C A T A A T A T T A C T C A G A T C C G A

Subgroup C (PA-C) 1 C T A C A G C T G T T A G G T T C C C A G T C T C C C A A C A T A C A T A A T A T T A C T C A G A T C T C T G

Subgroup D (S-D) 1 C T G C A G C T G T T A G G T T C C C A G T C T C C C T A A T A T T A C T C A G A T C C T G T

Subgroup E (RAV-O) 1 C T A C A G C T G T T A G G T T C C C A G T C T C C C T A A C A T A T T A C T C A G A T T C T G T

F93

Subgroup A (RAV-1) 50 G T G T A A C C G G A G A G G C G T A G G C T T T A G A C C A G A G G G G T C C C T G T G T A T A T A

Subgroup B (RAV-2) 50 G T G T A A C C G G A G A G G C G T A G G C T T A C C C C A T A C A G A T A G T C G T G T T C T A C G G

Subgroup C (PA-C) 50 G T G T G G C C G G G A T G T A T A T T A T T C C C C C A A G G C C A C A T G T C G T G T T T T A C G G

Subgroup D (S-D) 50 G T G T G G C C G G A G A T G C A T A G G C T T C A C C C A T A C C C A T C G C G C T G T G T T T A C G G

Subgroup E (RAV-O) 50 G T G T A A C C G G A G A G G C G T A G G C T T C G C C C A C A C T C C A T C C A A G T G T G T C T A C G G

F94

Subgroup A (RAV-1) 111 A T G G A C T A G A C A G G A A G C C A C A C G T T C G T C C T T A T A G A C A A T C C T C C T

Subgroup B (RAV-2) 114 T T G T T C T A G A C A G A A G C C A C C G G T T C T C T C T T A G A C C C C C T T T

Subgroup C (PA-C) 117 A T G G G A C C A G A G A G C T T A C C G A T C T C T G A C C G A C C C A G G G A C A A T C C T T

Subgroup D (S-D) 114 T T G G G T C T A A A C A A G G T C T C T C G C G T T C C T C C T C C G T C A C C C C T T A

Subgroup E (RAV-O) 117 G T G G G C C G G A A G G T G A C A C A C A T C C C T T T A A C C A A C C C C C T G A T A A T C C T T C

117 G T G G G C C G G A G A G G T A C A C A C A C A C A C T T C T T T G A T C C C C C C T G G T C A A T C C T T C

Antisense Primer (PA2) ←

F92

Subgroup A (RAV-1) 150 T T T C T A A T T C C A C G G A A C C A T T T A C G G T G G T G A C A G C G G A T A G G C

Subgroup B (RAV-2) 161 T C T C T A A C T C T C G A A A C C G T T T A C A G T G G T G A C A G C G G A T A G G C

Subgroup C (PA-C) 175 T T T G T A A G G C T C T A A C T C T C G A A C C G T T T A C A G T A G T G A C A G C G G A T A G G C

Subgroup D (S-D) 161 C C T C C A C C T T A A C T C C A C G A A C C G T T C A C G G T G T G A C A G C G G A T A G G C

Subgroup E (RAV-O) 175 T T T A C C G T G C T T A A C C T C C A C G G A A C C G T T A C G G T G T G A C A G C G G A T A G G C

175 T T T A C A G G C T T C T A A C T C C A C G G A A C C G T T A C G G T G T G A C A G C G G A T A G G C

2. 914

		Sense Primer (PA1)	
subgroup A (RAV-1)	1	C T A C A G C T G T T A G G T T C C A G T C T C T C C C T A A C A T T A C T A	40
2F	1	A C A G C T G T T A G G T T C C A G T T T T C C C T A A C A T T A C T A	37
65	1	T A C A G C T G T T A G G T T C C A G T C T C T C C C T A A C A T T A C T A	39
subgroup E (RAV-0)	1	C T A C A G C T G T T A G G T T C C A G T C T C T C C C T A A C A T T A C T A	40
7Q	1	C A G C T G T T A G G T T C C A G T T T C T C C C T A A C A T T A C T A	37
10Q	1	C T A C A G C T G T T A G G T T C C A G T C T C T C C C T A A C A T T A C T A	40
6F	1	C A G C T G T T A G G T T C C A G T C T C T C C C T A A C A T T A C T A	37
207	1	G C T G T T A G G T T C C A G T C T C T C C C T A A C A T T A C T A	35
		Hypervariable Region 1	
subgroup A (RAV-1)	41	A T A T T A C T C A G A T C T C C G G T G T A A C C G G G G G A T G C G T A G G	80
2F	38	A T A T T A C T C A A A T T T C T G G T G T A A C C G G A G G A G C G T A G G	77
65	40	A C A T A C T C A A A T T T C T G G T G T A A C C G G A G G A T G C G T A G G	78
subgroup E (RAV-0)	41	A T A T T A C T C A G A T T T C T G G T G T A A C C G G G G G A T G C G T A G G	80
7Q	38	A T A T T A C T C A G A T T T C T G G T G T A A C T G G G G G A T G C G T A G G	77
10Q	41	A T A T T A C T C A G A T T T C T G G T G T A A C C G G G G G A T G C G T A G G	80
6F	38	A T A T T A C T C A G A T T T C T G G T G T A A C T G G G G G A T G C G T A G G	77
207	36	A T A T T A C T C A G A T T T C T G G T G T A A C C G G G G G A T G C G T A G G	75
subgroup A (RAV-1)	81	C T T C A G G C C A A A G G G G T T C C T T G - - - G T A T C T G G G T T G	116
2F	78	C T T T A G A C C A G G A G G G A T C C C C T G - - - G T A T A T A G G A T G	113
65	79	C T T T A G A C C A G G A G G G A T C C C C T G - - - G T A T A T G G G A T G	114
subgroup E (RAV-0)	81	C T T C G C C C C A C A C T C C A A T C C A A G T G G T G T C T A C G G G T G G	120
7Q	78	C T T C A C C C C A C A C T C C A A T C C A A G T G G T G T T T A C G G G T G G	117
10Q	81	C T T C G C C C C A C A C T C C A A T C C A A G T G G T G T T T A C G G G T G G	120
6F	78	C T T C A C C C C A C A C T C C A A T C C A A G T G G T G T T T A C G G G T G G	117
207	76	C T T C A C C C C A C A C T C C A A T C C A A G T G G T G T C T A C G G G T G G	115
subgroup A (RAV-1)	117	G T C T - - A G A C A G G A - - - - - A G C C A C C G C G G T T T C T C C T T T	147
2F	114	G A C T - - A G A C A G G A - - - - - A G C C A C C A C G G T T T C C T C C T T T	144
65	115	G A C T - - A G A C A G G A - - - - - A G C C A C C A C G G T T T C C C C G T	145
subgroup E (RAV-0)	121	G G C C G G A G A C A G G T T A C A C A C A A C T T C T T G A T C G C C C C G T	160
7Q	118	G A C C G G A G A C A G G T T A C A C A C A A C T T C T T G A T C G C C C C G T	157
10Q	121	G G C C G G A G A C A G G T T A C A C A C A A C T T C T T G A T C G C C C C G T	160
6F	118	G G C C G G A G A C A G G T T A C A C A C A A C T T C T T G A T C G C C C C G T	157
207	116	G G C C G G A G A C A G G T T A C A C A C A A C T T C T T G A T C G C C C C G T	155
subgroup A (RAV-1)	148	A G A - C G C C C C T C T T T C T - - - - - C T A A C T C C T C G A A	176
2F	145	A G A - C A A T C C T C C T T T T - - - - - C T A A T T C C A C G G A	173
65	146	A A A - C A A T C C T C C T T T T - - - - - C T A A T T C C A C G G A	174
subgroup E (RAV-0)	161	G G G T C A A T C C T T T C T T T A A C A G C G C T T C T A A C T C C A C G G A	200
7Q	158	G G G T C A A T C C T T T C T T T A A C A G C G C T T C T A A C T C C A C G G A	197
10Q	161	G G G T C A A T C C T T T C T T T A A C A G C G C T T C T A A C T C C A C G G A	200
6F	158	G G G T C A A T C C T T T C T T T A A C A G C G C T T C T A A C T C C A C G G A	197
207	156	G G G T C A A T C C T T T C T T T A A C A G C G C T T C T A A C T C C A C G G A	195
		Antisense Primer (PA2)	
subgroup A (RAV-1)	177	A C C G T T T A C A G T G G T G A C A G C G G A T A G G C	205
2F	174	A C C A T T T A C G G T G G T G A C A G C G G A T A G G C	202
65	175	A C C A T T T A C G G T G G T G A C A G C G G A T A G G C	203
subgroup E (RAV-0)	201	A C C G T T T A C G G T G G T G A C A G C G G A T A G G C	228
7Q	198	A C C G T T T A C G G T G G T G A C A G C G G A T A G G C	225
10Q	201	A C C G T T T A C G G T G G T G A C A G C G G A T A G G C	229
6F	198	A C C G T T T A C G G T G G T G A C A G C G G A T A G G C	226
207	196	A C C G T T T A C G G T G G T G A C A G C G G A T A G G C	224

FIG. 3